

# VCAS121048H101DP

(1210, 48Vdc, 1.2J, 250A, 500pF, Sn Term)

Multilayer Chip Varistor Datasheet

## BASIC SPECIFICATION

Case Size [EIA]	1210
Operating Temperature	-55 to +125°C
Grade	Automotive
Qualification	AEC-Q200
Termination	Sn
RoHS	Yes
MSL Level	1
Packaging	T&R 7in (180mm)
Packaging Qty	1000 pcs



AEC-Q200  
Qualified



RoHS  
Compliant



Click for  
Online Data

## ELECTRICAL CHARACTERISTICS

DC Working Voltage	48 Vdc
AC Working Voltage	34 Vac
Breakdown Voltage [1mA DC]	62.0±10% V
Clamping Voltage [8x20µs]	100V @ 1A
Max Leakage Current [Vdc, 25°C]	10 µA
Transient Energy [10x1000µs]	1.2 J
Load Dump Energy [x10]	-
Peak Power [10x1000µs]	900 W
Peak Current Rating [8x20µs]	250 A
Typical Capacitance [1kHz, 0.5Vrms, 25°C]	500 pF
Capacitance Tolerance	+100/-50%
Jump Start Voltage [5min]	48 V
Power Dissipation	0.022 W

## DIMENSIONS



	mm	inches
L	3.20±0.20	0.126±0.008
W	2.49±0.20	0.098±0.008
T	1.7 max	0.067 max
t	1.14 max	0.045 max

## SOLDERING PAD



	mm	inches
A	1.02	0.04
B	2.03	0.08
C	4.06	0.16
D	2.54	0.1

## HOW TO ORDER

<b>VCAS</b>	<b>1210</b>	<b>48</b>	<b>H</b>	<b>101</b>	<b>D</b>	<b>P</b>
Varistor Chip Automotive	Case Size	Working Voltage	Energy Rating	Clamping Voltage	Packaging	Termination
		48 = 48 Vdc	H = 1.2J	101 = 100V	D = 7" reel (1,000pcs) R = 7" reel (2,000pcs) T = 13" reel (10,000pcs)	P = Sn

## TYPICAL CHARACTERISTICS

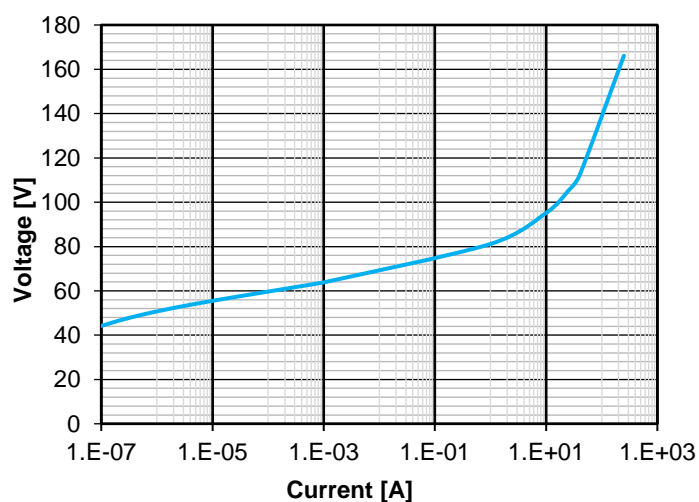
Temperature Derating (Energy, Current, Power)



Power Derating



Voltage / Current



S21

